

Notice of Allowability	Application No.	Applicant(s)	
	09/786,778	REY ET AL.	
	Examiner	Art Unit	
	USHA RAMAN	2424	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10-5-10.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 48-52,55,56,59,60,62,63,65-67,69-80 and 82-85.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
|---|--|

/Pankaj Kumar/
Supervisory Patent Examiner, Art Unit 2424

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Seema Metha on July 26, 2012.
3. The application has been amended as follows:
 - In the claims, cancel claims 68 and 81.
 - Replace claim 48 with the following:

--A method of transmission of application data in a plurality of services carried in a digital transport stream, each application being carried by one or more of the plurality of, comprising:

providing a single application data table containing information regarding each application carried by one or more of plurality of services,

wherein the at least one application is an executable application configured to execute on a decoder, and

wherein the single application data table comprises a list of applications carried by each of the plurality of services, and indicates whether a given application is carried by more than one service,

wherein the decoder is configured to execute a first set of one or more applications that are carried by a first service after downloading the first set of one or more applications, and

wherein, upon receiving from the user an instruction to change from the first service to a second service, the decoder is configured to determine which of the first set of applications is also carried by the second service, wherein the determination is made based on the information in the application data table without obtaining a PMT table for the second service; and

wherein, upon determining that at least one or more of the first set of applications is also carried by the second service, the decoder is configured to maintain or delete the one or more applications of the first set of applications that are also carried by the second service during the service change.--

- Replace 56 with the following:

--A transmission apparatus comprising:

a transmitter for transmitting a transport stream comprising a plurality of digital television services, wherein each of the plurality of services carries at least one application, together with a single application data table comprising information regarding said at least one application carried by each of a plurality of the services within the transport stream,

wherein the at least one application comprises an executable application configured to be executed on a decoder,

wherein the single application data table further comprises a list of applications carried by each of the plurality of services and indicates whether a given application is carried by more than one service,

wherein the decoder is configured to execute a first set of one or more applications that are carried by a first service after downloading the first set of one or more applications, and

wherein, upon receiving from the user an instruction to change from the first service to a second service, the decoder is configured to determine which of the first set of applications is also carried by the second service, wherein the determination is made based on the information in the application data table without obtaining a PMT table for the second service; and

wherein, upon determining that at least one or more of the first set of applications is also carried by the second service, the decoder is configured to maintain or delete the one or more applications of the first set of applications that are also carried by the second service during the service change.--

- Replace claim 63 with the following:

--A decoder, comprising:

a memory for storing an application data table comprising information regarding applications carried by a plurality of services within a digital transport stream, wherein each of the plurality of services carries at least one application,

wherein the at least one application comprises an application executable by the decoder,

wherein the application data table further comprises a list of applications carried by each of the plurality of services and is configured to indicate whether a given application is carried by more than one service,

the decoder being configured to:

execute a first set of one or more applications that are carried by a first service after downloading the first set of one or more applications;

upon receiving from the user an instruction to change from the first service to a second service, determine which of the first set of applications is also carried by the second service, wherein the determination is made based on the information in the application data table without obtaining a PMT table for the second service; and

upon determining that at least one or more of the first set of applications is also carried by the second service, maintain or delete the one or more applications of the first set of applications that are also carried by the second service during the service change.--

- Replace claim 77 with the following:

--A method of reception by a decoder of applications carried in a plurality of services, each application being carried by one or more of the plurality of services, wherein the said plurality of services is transmitted in a digital transport stream, said method comprising the steps of:

receiving an application data table containing information regarding said applications carried by said plurality of services,

wherein each application is an executable application configured to execute on said decoder, and

wherein said application data table comprises a list of all applications carried by each of the plurality of services and indicates whether a given application is carried by more than one service;

executing on the decoder, a first set of one or more applications that are carried by a first service after downloading the first set of one or more applications;

upon receiving from the user an instruction to change from the first service to a second service, determining which of the first set of applications is also carried by the second service, wherein the determination is made based on the information in the application data table without obtaining a PMT table for the second service; and

upon determining that at least one or more of the first set of applications is also carried by the second service, maintaining or deleting the one or more applications of the first set of applications that are also carried by the second service during the service change.--

- In each of claims 79, 80, 82, and 82, replace “The method as claimed in claim 77” with --The method as claimed in claim 78--
- Add new claim 84 as follows:

--The method as claimed in claim 77, wherein one or more of the first set of applications is deleted when the one or more applications includes a parameter exclusive to the first service in the application data table.--

- Add new claim 85 as follows:

--The method as claimed in claim 77, further comprising deleting the one or more of the first set of applications after a predetermined period of time, upon determining that the one or more of the first set of application is not carried by the second service.--

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The independent claims recite, inter alia, one or more executing a first set of applications that are carried by a first service, wherein upon receiving a user instruction to change to a second service, determining whether any of the first set of applications are also carried by the second service, wherein this determination is made based on information contained in the application data table without obtaining the PMT (program map table) for the second service and performing the maintenance or deletion of the applications in the first set of applications that are also deemed to be carried by the second service. The prior art of record alone or in combination does not teach the recited limitations, one of ordinary skill in the art at the time of the invention could have not arrived at the recited claim language without improper hindsight.

Art Unit: 2424

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to USHA RAMAN whose telephone number is (571)272-7380. The examiner can normally be reached on Mon-Fri: 9:30am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pankaj Kumar can be reached on (571) 272-3011. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2424

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Usha Raman/

Examiner, Art Unit 2424

/Pankaj Kumar/

Supervisory Patent Examiner, Art Unit 2424